

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"5789477".pn.	US- PGPUB; USPAT	ADJ	ON	2008/12/19 17:02
S2	6	("5298214"   "5789477"   "5916932"   "5951940"   "5789477"   "5916932"   "6191228"   "6247651").PN.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 10:35
S3	13	("1005992"   "1105319"   "4083491"   "5238734"   "5609295"   "5722589"   "5916932").PN. OR ("6247651").URPN.	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/12/24 11:32
S4	336	(238/ 84,30).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 13:48
S5	1757	(railroad adj tie)	US- PGPUB; USPAT	ADJ	ON	2008/12/24 13:48
S6	52	S4 and S5	US- PGPUB; USPAT	ADJ	ON	2008/12/24 13:48
S7	30223	web same flange	US- PGPUB; USPAT	ADJ	ON	2008/12/24 13:48
S8	3	S6 and S7	US- PGPUB; USPAT	ADJ	ON	2008/12/24 13:48
S9	23	("0511227"   "0567632"   "0766328"   "1006430"   "1013960"   "1064163"   "1092198"   "1312020"   "1360594"   "1683013"   "2386100"   "3813040").PN.	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/12/24 14:07
S10	38698	(i beam) or (c beam) or (t beam)	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/12/24 14:20
S12	84	S5 and S10	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/12/24 14:20
S13	50	("20070036940" "5803402" "20030123929" "6481179" "20010003889" "4546024" "4641468" "4698249" "5242652" "5403063" "5499572" "5798154" "6017019" "6435355" "6695135" "6857237" "20010029717" "20050217205" "20080238114" "3625493" "4401351" "4967511" "5233743" "5320373" "5338369" "5403062" "5794402" "5935113" "6023806" "6206327" "6309732" "6455131" "6544624" "6585701" "6698148" "7111862" "20010029706" "20010036535" "20020010973" "20030046779" "20030074853" "20030075419" "20030091793" "20040109945" "20050127716" "20070277924" "20080209823" "4859259" "6118408" "6220657" ).pn.	US- PGPUB; USPAT	OR	ON	2008/12/24 14:22

S17	785	(238/85,106,98,54,29,57,83,90,91).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 14:55
S18	1	"20070036940".pn.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:07
S19	1963	(52/578,586.1,586.2,782.1,783.1).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:08
S20	344	14/73.ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:09
S21	818	(521/40,40.5,41,48).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:09
S22	662	(523/204,214,513,527).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:10
S23	3018	(524/494,493,23).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:10
S24	3320	(428/119,101,99,54,384,903.3).ccls.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:10
S25	89	S5 and S17	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S26	3	S5 and S19	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S27	0	S5 and S20	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S28	2	S5 and S21	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S29	3	S5 and S22	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S30	5	S5 and S23	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S31	13	S5 and S24	US- PGPUB; USPAT	ADJ	ON	2008/12/24 15:11
S32	1	"6247651".pn.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 17:32
S33	1	"7011253".pn.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 17:34
S34	1	"1297828".pn.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 17:40
S35	116	(rutgers university).as.	US- PGPUB; USPAT	ADJ	ON	2008/12/24 18:34

S36	1757	(railroad adj tie)	US-PGPUB; USPAT	ADJ	ON	2008/12/24 18:35
S37	0	S35 and S36	US-PGPUB; USPAT	ADJ	ON	2008/12/24 18:35
S38	38698	(i beam) or (c beam) or (t beam)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/24 18:35
S39	0	S35 and S38	US-PGPUB; USPAT	ADJ	ON	2008/12/24 18:35
S40	14	S35 and composite	US-PGPUB; USPAT	ADJ	ON	2008/12/24 18:36
S41	1	"20070036940".pn.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:04
S42	10	((THOMAS) near2 (NOSKER)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:57
S43	1	((MARYANN) near2 (RENFREE)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:57
S44	4	((JAMES) near2 (KERSTEIN)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:57
S45	71	((LOUIS) near2 (SIMON)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:58
S46	664	rutgers.as.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:58
S47	569976	railroad or tie or bridge	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:58
S48	4	S47 and S45	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:59
S49	84	S47 and S46	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:59
S50	0	:flange and web and S49	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:59
S51	1	:flange and web and S48	US-PGPUB; USPAT	ADJ	ON	2009/07/31 18:59
S52	45	polymer and S49	US-PGPUB; USPAT	ADJ	ON	2009/07/31 19:00
S53	790	(238/85,106,98,54,29,57,83,90,91).ccls.	US-PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S54	182	S47 and S53	US-PGPUB; USPAT	ADJ	ON	2009/07/31 19:01

S55	842	(521/40,40.5,41,48).ccls.	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S56	39	S47 and S55	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S57	667	(523/204,214,513,527).ccls.	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S58	67	S47 and S57	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S59	3095	(524/494,493,23).ccls.	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S60	342	S47 and S59	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S61	3397	(428/119,101,99,54,384,903.3).ccls.	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S62	384	S47 and S61	US- PGPUB; USPAT	ADJ	ON	2009/07/31 19:01
S63	1	"5789477".pn.	US- PGPUB; USPAT	ADJ	ON	2009/08/02 12:43
S64	1	"5298214".pn.	US- PGPUB; USPAT	ADJ	ON	2009/08/02 13:15
S65	13	((THOMAS) near2 (NOSKER)).INV.	US- PGPUB; USPAT	NEAR	ON	2010/03/09 12:28
S66	2	((MARYANN) near2 (RENFREE)).INV.	US- PGPUB; USPAT	NEAR	ON	2010/03/09 12:28
S67	4	((JAMES) near2 (KERSTEIN)).INV.	US- PGPUB; USPAT	NEAR	ON	2010/03/09 12:28
S68	72	((LOUIS) near2 (SIMON)).INV.	US- PGPUB; USPAT	NEAR	ON	2010/03/09 12:28
S69	700	rutgers.as.	US- PGPUB; USPAT	NEAR	ON	2010/03/09 13:12

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	322	(238/84,30).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:10
L2	1468	(52/578,586.1,586.2,782.1,783.1).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:11
L3	2897	(428/119,101,99,54,384,903.3).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:11

L4	2341	(524/494,493,23).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:11
L5	637	(523/204,214,513,527).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:12
L6	696	(521/40,40,5,41,48).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:12
L7	759	(238/85,106,98,54,29,57,83,90,91).ccls.	USPAT; UPAD	ADJ	ON	2010/03/10 09:12
L8	388729	railroad or tie or bridge	USPAT; UPAD	ADJ	ON	2010/03/10 09:13
L9	2287	((HDPE or polyethylene) and thermoplastic and fibers).clm.	USPAT; UPAD	ADJ	ON	2010/03/10 09:14
L10	72229	(railroad or tie or bridge).clm.	USPAT; UPAD	ADJ	ON	2010/03/10 09:15
L11	47	9 and  10	USPAT; UPAD	ADJ	ON	2010/03/10 09:15
L12	3	9 and  11	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L13	1	9 and  2	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L14	25	9 and  3	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L15	56	9 and  4	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L16	21	9 and  5	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L17	11	9 and  6	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L18	2	9 and  7	USPAT; UPAD	ADJ	ON	2010/03/10 09:27
L19	556	rutgers.as.	USPAT; UPAD	NEAR	ON	2010/03/10 09:28
L20	2	9 and L19	USPAT; UPAD	ADJ	ON	2010/03/10 09:28
L21	64	((LOUIS) near2 (SIMON)).INV.	USPAT; UPAD	NEAR	ON	2010/03/10 09:28
L22	0	9 and L21	USPAT; UPAD	ADJ	ON	2010/03/10 09:28
L23	2	10 and L21	USPAT; UPAD	ADJ	ON	2010/03/10 09:29
L24	4	10 and L19	USPAT; UPAD	ADJ	ON	2010/03/10 09:29
L25	40	10 and L1	USPAT; UPAD	ADJ	ON	2010/03/10 09:30
L26	41	10 and L2	USPAT; UPAD	ADJ	ON	2010/03/10 09:30
L27	72	10 and L3	USPAT; UPAD	ADJ	ON	2010/03/10 09:30
L28	58	10 and L4	USPAT; UPAD	ADJ	ON	2010/03/10 09:30
L29	2	10 and L5	USPAT; UPAD	ADJ	ON	2010/03/10 09:30
L30	3	10 and L6	USPAT; UPAD	ADJ	ON	2010/03/10 09:31

L31	62	I10 and L7	USPAT; UPAD	ADJ	ON	2010/03/10 09:31
L32	6	((THOMAS) near2 (NOSKER)).INV.	USPAT; UPAD	NEAR	ON	2010/03/10 10:37
S70	556	rutgers.as.	USPAT; UPAD	NEAR	ON	2010/03/09 13:12
S71	64	((LOUIS) near2 (SIMON)).INV.	USPAT; UPAD	NEAR	ON	2010/03/09 13:12
S72	2	((JAMES) near2 (KERSTEIN)).INV.	USPAT; UPAD	NEAR	ON	2010/03/09 13:12
S73	0	((MARYANN) near2 (RENFREE)).INV.	USPAT; UPAD	NEAR	ON	2010/03/09 13:13

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